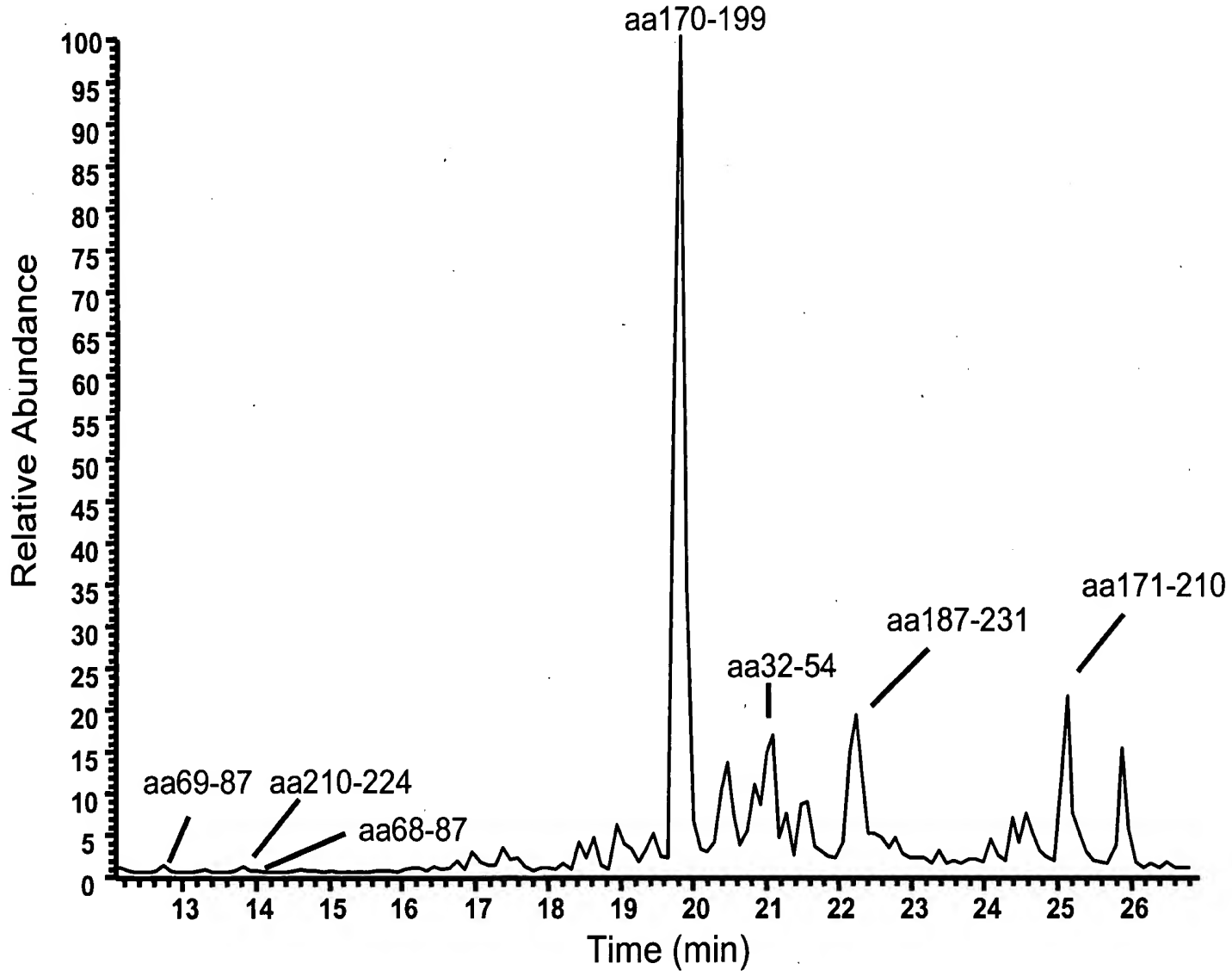

FIG. 1

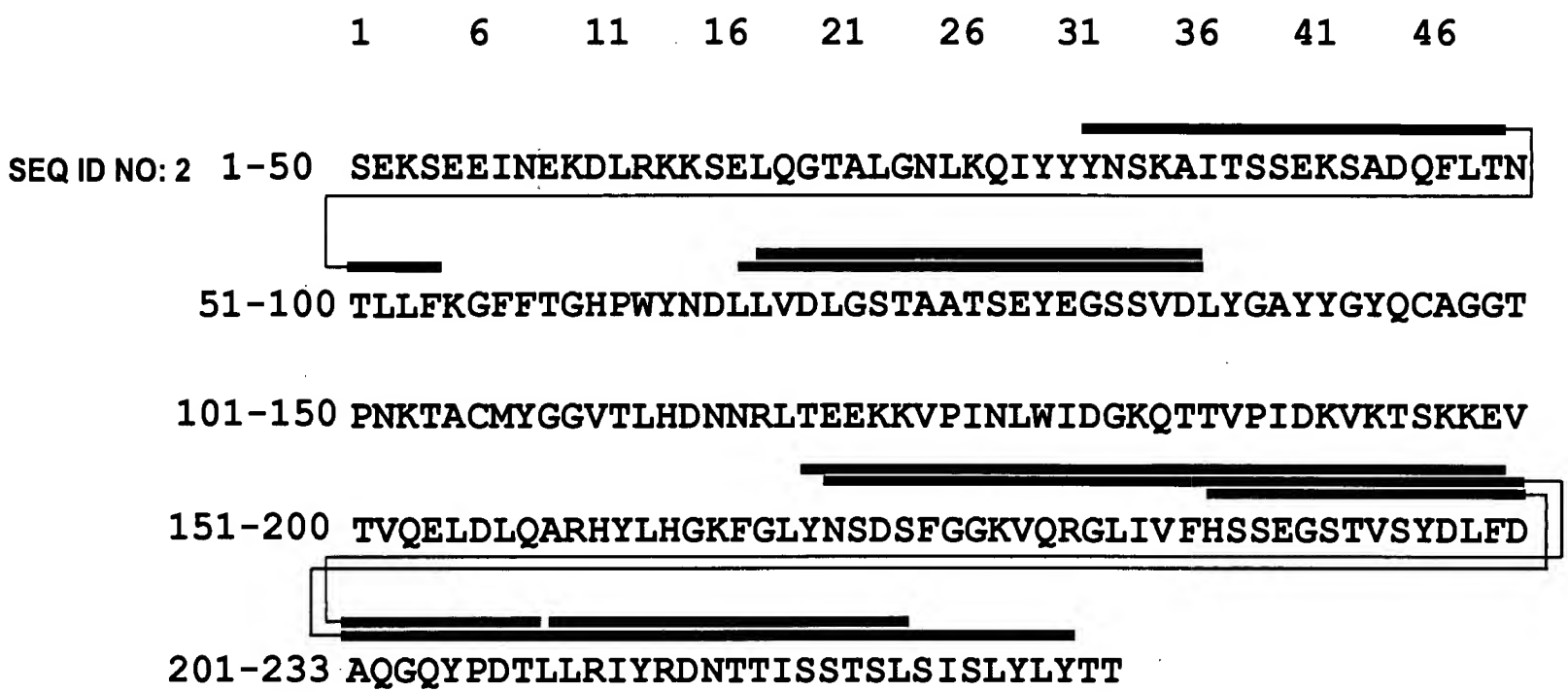

FIG. 2

SEQ ID NO: 3 SEAE18 : SEKSEEINEKDLRKKSELQGTALGNLKQIYYYN---EKAITENKESDDQF
SEQ ID NO: 4 SEA : SEKSEEINEKDLRKKSELQGTALGNLKQIYYYN---EKAKTENKESHDQF
SEQ ID NO: 5 SED : ALHKKSELSSTALNNMKHSYADA---NPIIGANKSTGDQF
SEQ ID NO: 6 SEH : EDLHDKSELTDLALANAYGQYNHPFIKENIKSDEISGEKDL

SEAE18 : LENTLLFKGFFTGHPWYNDLLVDLGSKDATNKYKGKKVDLYGAYYGYQCA
SEA : LQHTILFKGFFTDHSWYNDLLVDFDSKDIVDKYKGKKVDLYGAYYGYQCA
SED : LENTLLYKAFF--------LLINFNSAEMAQHFKSKNVDVYAIRYAAAC-
SEH : IFRNQGDSG--------NDLRVKFATADLAQKFKNKNVDIYGASFYYKCE

SEAE18 : GGTPNKTACMYGGVTLHDNNRLTEEKKVPINLWIDGKQTTVPIDKVKTSK
SEA : GGTPNKTACMYGGVTLHDNNRLTEEKKVPINLWLDGKQNTVPLETVKTNK
SED : ------RTACTYGGVTPHAGNALKARKKIPINLWIIGVQKEVSLDKVQTDK
SEH : KISENISECLYGGTTLN-SEKLAQERVIGANVWVDGIQKETE--LIRTNK

SEAE18 : KEVTVQELDLQARHYLHGKFGLYNSDSFGGKVQRGLIVFHSSEGSTVSYD
SEA : KNVTVQELDLQARRYLQEKYNLYNSDVFDGKVQRGLIVFHTSTEPSVNYD
SED : KNVTVQELDAQARRYLQKDLKLYN-------AIQRGKLEFDSAAASKVSYD
SEH : KNVTLQELDIKIRKILSDKYKIYY---KDSEISKGLIEFDMKTPRDYSFD

SEAE18 : LFDAQGQYPDTLLRIYRDNKTINSEN-LHIALYLYTT
SEA : LFGAQGQYSNTLLRIYRDNKTINSENM-HIDIYLYTS
SED : LFDVAGDFPEKQLRIYSDNKTLSTEH-LHIDIYLYEA
SEH : IYDLKGENDYEIDKIYEDNKTLKSDDISHIDVNLYTKKKV

FIG. 3

T0902O"99200660

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

```
                                              A                      B
SEQ ID NO: 2  SEA/E-120   SEKSEEINEKDLRKKSELQGTALGNLKQIYYYNSKAITSSEKSADQFLTNTLLFKGFFTG  60
SEQ ID NO: 3  SEA/E-18    SEKSEEINEKDLRKKSELQGTALGNLKQIYYYNEKAITENKESDDQFLENTLLFKGFFTG  60
SEQ ID NO: 7  SEE         SEKSEEINEKDLRKKSELQRNALSNLKQIYYYNEKAITENKESDDQFLENTLLFKGFFTG  60
SEQ ID NO: 4  SEA         SEKSEEINEKDLRKKSELQGTALGNLKQIYYYNEKAKTENKESHDQFLQHTILFKGFFTD  60
                          ****************** .**.**:******.** *..::* **** :*:*******.

                                          C
              SEA/E-120   HPWYNDLLVDLGSTAATSEYEGSSVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT 120
              SEA/E-18    HPWYNDLLVDLGSKDATNKYKGKKVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT 120
              SEE         HPWYNDLLVDLGSKDATNKYKGKKVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT 120
              SEA         HSWYNDLLVDFDSKDIVDKYKGKKVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT 120
                          *.********:.*.  ..:*:*..***********************************

              SEA/E-120   EEKKVPINLWIDGKQTTVPIDKVKTSKKEVTVQELDLQARHYLHGKFGLYNSDSFGGKVQ 180
              SEA/E-18    EEKKVPINLWIDGKQTTVPIDKVKTSKKEVTVQELDLQARHYLHGKFGLYNSDSFGGKVQ 180
              SEE         EEKKVPINLWIDGKQTTVPIDKVKTSKKEVTVQELDLQARHYLHGKFGLYNSDSFGGKVQ 180
              SEA         EEKKVPINLWLDGKQNTVPLETVKTNKKNVTVQELDLQARRYLQEKYNLYNSDVFDGKVQ 180
                          *********:****.***::.***.**:**********:**: *:.***** *.****

                               D                              E
              SEA/E-120   RGLIVFHSSEGSTVSYDLFDAQGQYPDTLLRIYRDNTTISSTSLSISLYLYTT 233
              SEA/E-18    RGLIVFHSSEGSTVSYDLFDAQGQYPDTLLRIYRDNKTINSENLHIALYLYTT 233
              SEE         RGLIVFHSSEGSTVSYDLFDAQGQYPDTLLRIYRDNKTINSENLHIDLYLYTT 233
              SEA         RGLIVFHTSTEPSVNYDLFGAQGQYSNTLLRIYRDNKTINSENMHIDIYLYTS 233
                          *******:*  .:*.****.*****.:*********.**.*  .: * :****:
```

FIG. 4

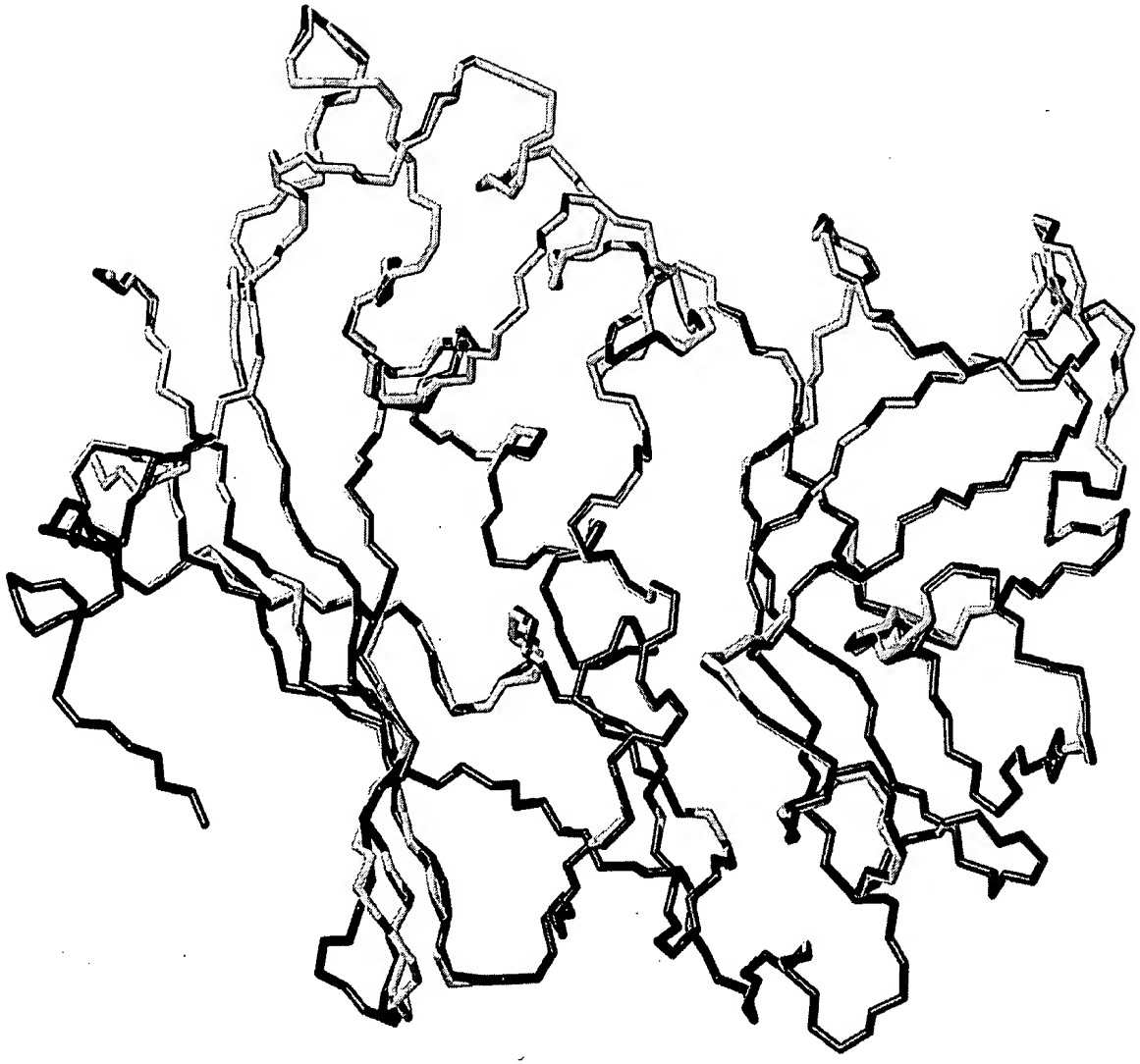

FIG. 5

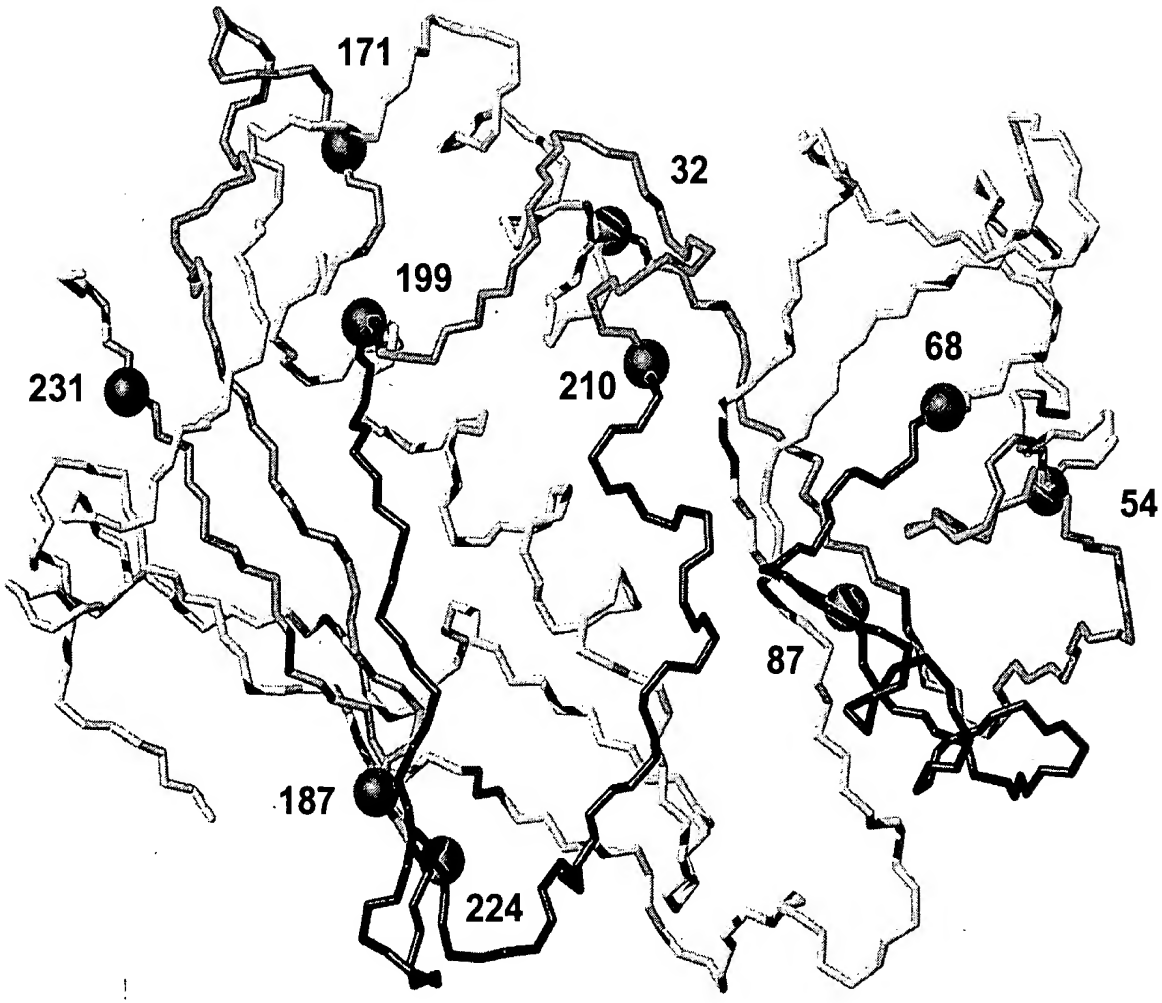

FIG. 6

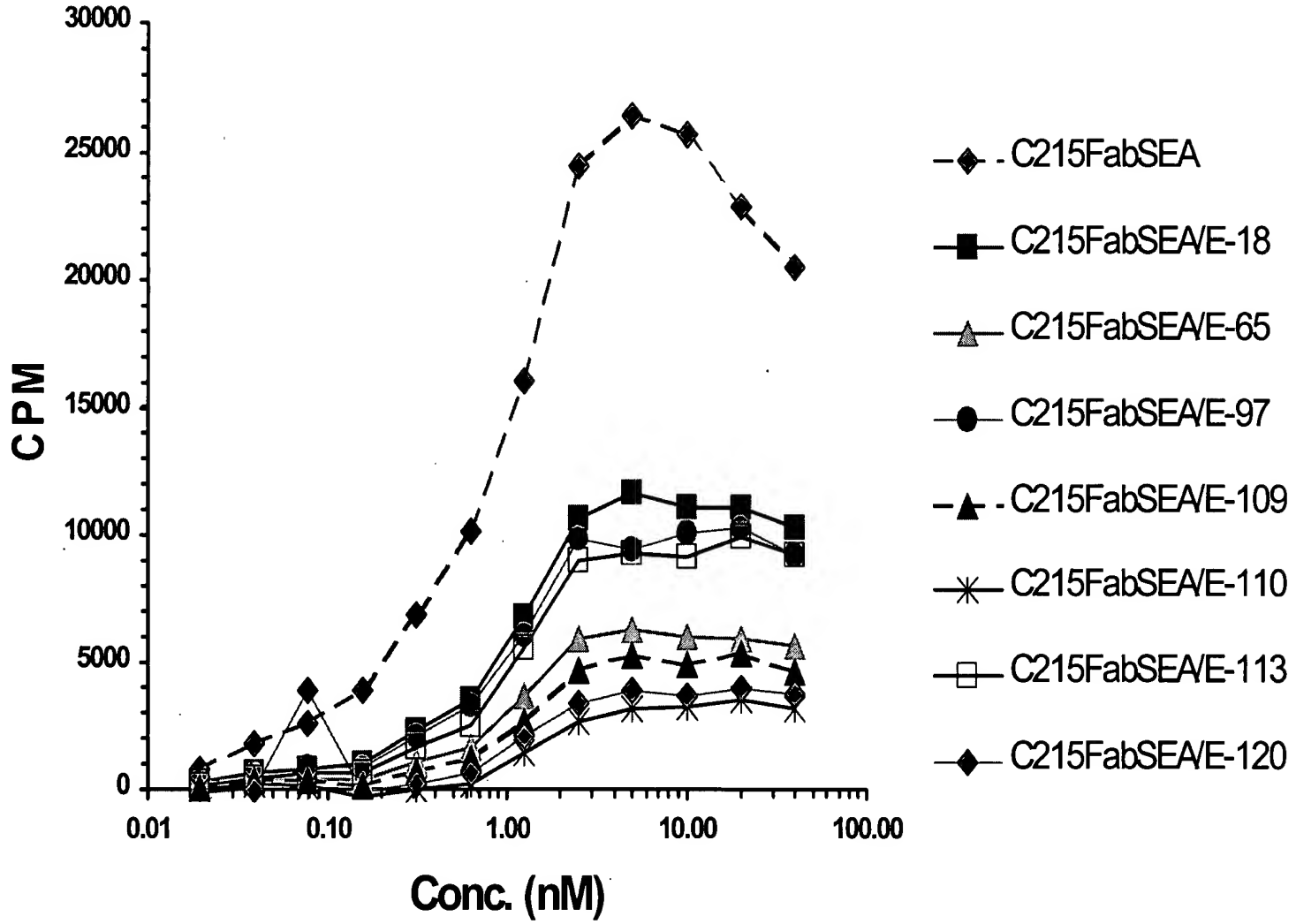

FIG. 7

reduction in binding to human vSEA by SEE variants.

no control for SEE alone.

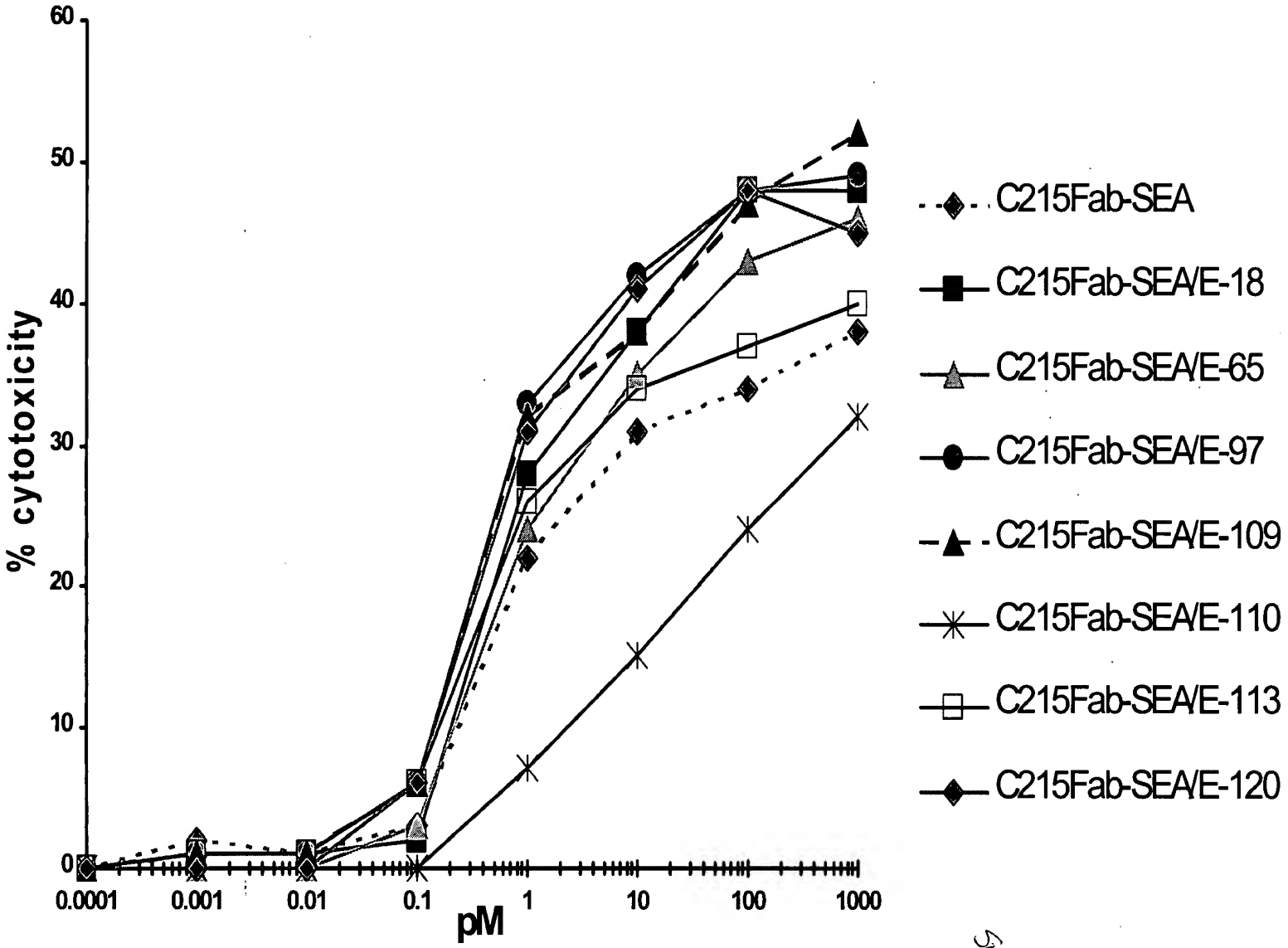

FIG. 8A

Supernatant antibody Ab-dependent cellular cytotoxicity

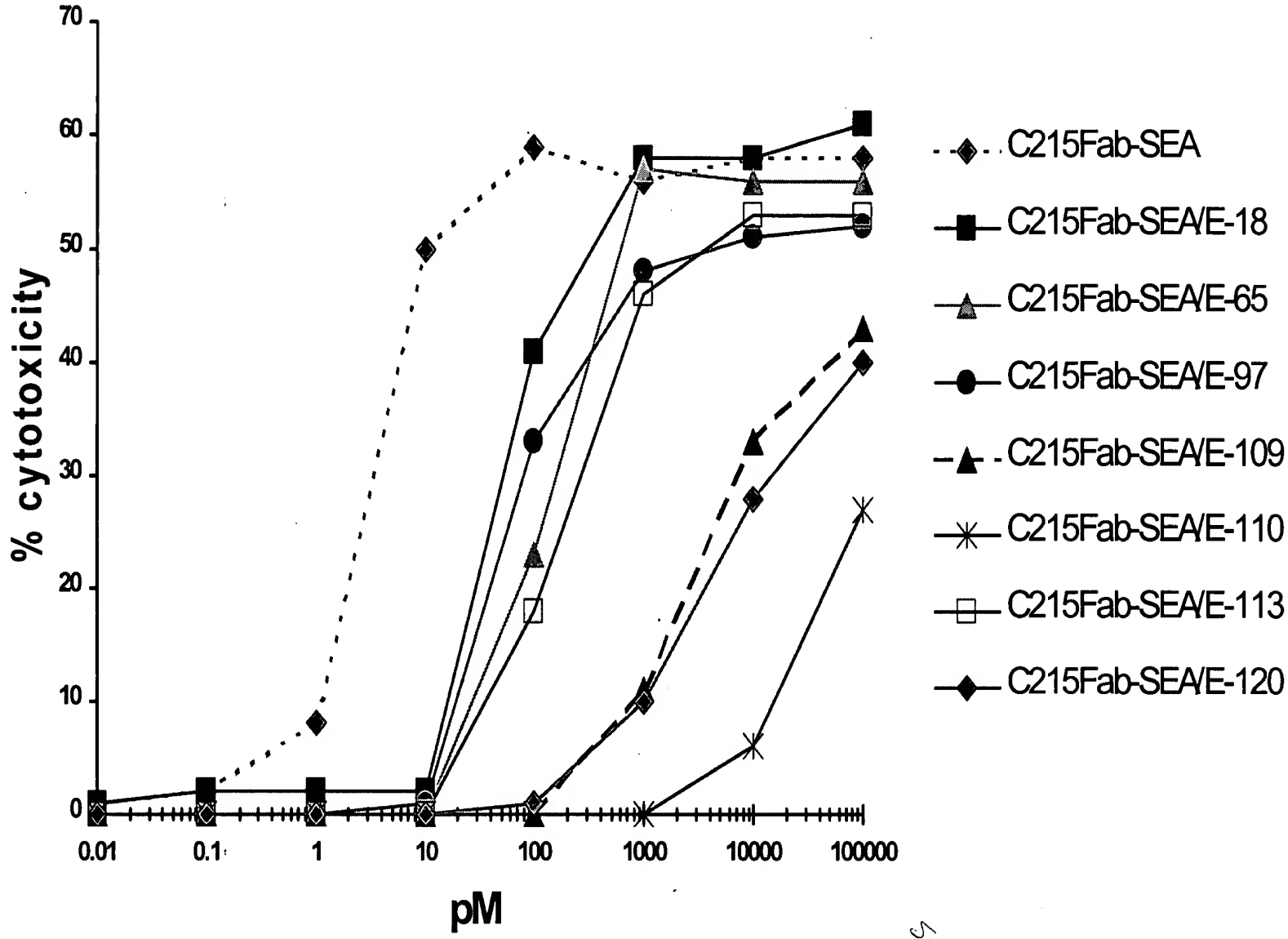

FIG. 8B

Supernatant dependent cellular cytotoxicity

FIG. 9

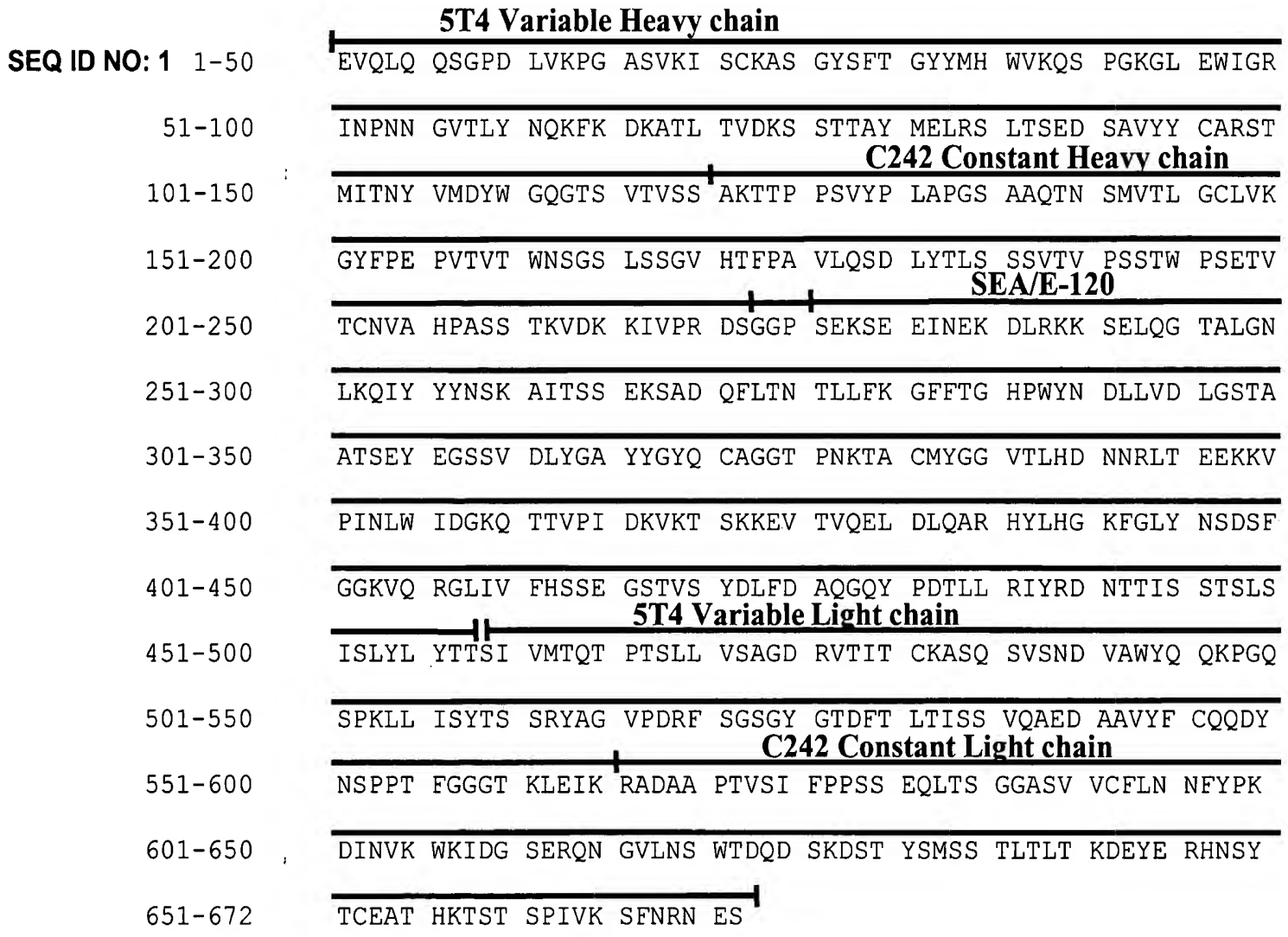

FIG. 10